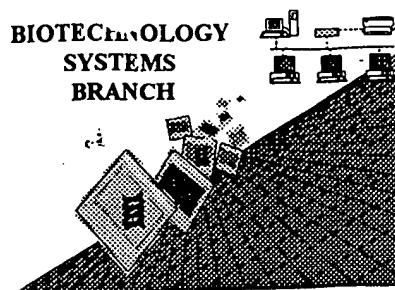


Shawin
Foley

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/509,712

Source: 1648 RWA

Date Processed by STIC: 7/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/509,712

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

1648

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

Does Not Comply
Corrected Diskette Needed

2 <110> APPLICANT: Rubin, Donald H.
 3 Organ, Edward L.
 4 DuBois, Raymond N..
 6 <120> TITLE OF INVENTION: Mammalian Genes Involved in Viral
 7 Infection and Tumor Suppression
 9 <130> FILE REFERENCE: 01123.0004/P
 11 <140> CURRENT APPLICATION NUMBER: US/09/509,712
 11 <141> CURRENT FILING DATE: 2000-02-11
 11 <150> PRIOR APPLICATION NUMBER: 60/062,021
 12 <151> PRIOR FILING DATE: 1997-10-10
 14 <160> NUMBER OF SEQ ID NOS: 127
 16 <170> SOFTWARE: FastSEQ for Windows Version 3.0

This error type
exists in all sequences
(global error)

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 925
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Rattus norvegicus
 W--> 22 <400> SEQUENCE: 1
 E--> 23 gggggaaaac chggnaattg ttttttgacg anccaaaaag ggggchagha gchnttntcc 60
 E--> 24 canatggggn cgggatcntn tccnaggana gattnatgga gtatnccttt ttgcnchnaa 120
 E--> 25 ggttgattgc tcttgaaagg ntttgagggtg naattcctcc gtnagtttga ccgtagtcgg 180
 E--> 26 atntgaagag ggattgttna gcagmcataa tttcattccc tgnacaccca gtaacnnttt 240
 E--> 27 accgtcattt ggttgggaat tgatntcggg aggtanacan ggccacagtt atttattgtt 300
 E--> 28 ncggaggatt gcaccaattn ggccggctgc ctctganatc tgtttctcat ccattgccgt 360
 E--> 29 tcacccagac gaaagccgaa agcntcggga gtcctaactn tagtccttga aagtcattcc 420
 30 cagctgcgta attgggctgt gcagagtcce agctcggtaa atatttgccc cgtgactgag 480
 31 ctggagagaa tgctcctttc ttggtccttg gcagctcttg gcagtcaca tgcactgttt 540
 32 acctatctct ccacattccc ccctgaggaa tcatctgtcc tcggttcctt taagtcctct 600
 33 caacagaaaa caaggcagag tggaacgaag gaaagtgcgt ggccgttaga aagcctgtct 660
 34 cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa 720
 35 ataccgtccg gtcaattagt caggtggaca gagcaggacc cgggtgtctg gaagcctcgt 780
 36 ccattcctct ggggaaggtg gggggggcg tgtaatgcag ctctcaagaa gaaggtattt 840
 37 ttgttttctt ggagaaactg ccattcccag agctgagagt ggatcagtag gaaggcctgt 900
 E--> 38 gacaggaagc agggaggttc agcng 925
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 554
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Rattus norvegicus
 W--> 44 <400> SEQUENCE: 2
 E--> 45 caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaagggaa cgcgccggatg 60
 E--> 46 agccnggggtg cgganagcca gaccccaggc gtgggaaggg gagagagata gagcggccgg 120
 E--> 47 ttgggaagag gaggaccgtg gttnataaat aacagaaagc ccagagggac gtanccatcc 180
 E--> 48 gggatggaga gaggtaggga atccagntgt aagtcccaa ctgccaccac cttcatnaga 240
 E--> 49 actgcttcgt gtaaggtcac gcaccgggcc agctgtccng agtggcggtc ctggcgtgtt 300

see item 9 on Error summary sheet

see
item 9

item 9

item 9

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

```

E--> 50 aagttagcta aagtnactgc aactccgnet gtgcagactg ntcgtaaatt ctctctgtcc 360
E--> 51 gccaaattct cctcctatt aaacttttca cttcctttca cttagtttcc tnaacttcttt 420
E--> 52 caaacggaag ctgtaactga gcctgccacc cnganaentt gtggttgcca tttttatget 480
E--> 53 aaagtaatcg tgttttttat gcctgtcaac tcccttttca tntaaagcag ggcntaccct 540
54 attataactc tgcc 554
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 891
57 <212> TYPE: DNA
58 <213> ORGANISM: Rattus norvegicus
W--> 59 <400> SEQUENCE: 3
E--> 60 ttngaaanaa tttccgtnaa ggtcngnaat nggccccgga aaaaatgngt tcctccccac 60
E--> 61 cttcattggn gcggatcctg ccngggaggc caatggttta acaaataatc tttnggagnt 120
E--> 62 ntggtngggg ggggagggac ncccacagan tcatngggtg gtngggngg ngggcatcgt 180
E--> 63 tnnatatta tcacattntg ngaanctatg tnggggcttc ctttcngaca ggtggtggtt 240
E--> 64 nnacangngg atgtgtgctt cttttttcag cagtgtgtga cccggattct aagaccctta 300
E--> 65 cngtaacaat gccctntttt cctaagccta accagtcctt tangaggant gctcttggn 360
E--> 66 acccatgctg nntcacctag ccttggnatc catntnnac acaggaaaag gcagcatgtc 420
E--> 67 ttntnggagc tcagcttatt cccttccent cccatccagn atctccctgg gntggatgag 480
E--> 68 gtggatgacg catcttcaaa gcaccccacg tntcatggga tgtgcacagg agcttcggtg 540
E--> 69 gaaatgtgtt gcgcgaccag gcttgtgtag gaaacaacag actactcgaa attaaagtcn 600
E--> 70 taccttgacg ggttctcaga ggcttttacg cattaataaa catttgaatc ntaagaaggg 660
E--> 71 agcacagcat gtaatatntt tcaaattatc agccttgca accttcatta gtttctctta 720
E--> 72 cgcagctggg ngtggtggtg tgtaccttta atctcagcac tgaggaggca cngatatctc 780
E--> 73 catctctgtg acttccagac cggcntcgcc agagcaagtt ccaggccacc cagatgagat 840
E--> 74 gctcacagag gggacctttt tntgatgacc aacgnagnat gcaagtaagg a 891
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 974
77 <212> TYPE: DNA
78 <213> ORGANISM: Rattus norvegicus
W--> 79 <400> SEQUENCE: 4
E--> 80 aaaanaanat attccgnntc tnntagcnaa gaagttnntc gagcnntccc ccgntttttt 60
E--> 81 aaaaaccncn ggattccggn nntcgggntt taanngnttt tttaanggcc cnaagncccn 120
E--> 82 nttattgccg ncntttcccc cccgctnttg cncctcttta cttngagant ngtgntncna 180
E--> 83 agattttnaag gttnttgccc ccccggtttt tnttcccctn nttttcccn nagntttaaa 240
E--> 84 accggtntgg gttncnantt nnttgnance nccnattggg gtttccgntt accnggggtt 300
E--> 85 ttccccatgn ccgttccctc caatnttgna ctcccnngt cnggggtccna atnccnngna 360
E--> 86 acngntcnan ccttattgac aattaatttt tccttgngna ntctgncccc cngnantttg 420
E--> 87 gggttcttgg gngcagggcc tttttttcnt tggnggcaan cncataaatn ttaccagntt 480
E--> 88 gattgctaag gaagtancca tgggttgnaa ccccccttn ttntctccca gatggaaccc 540
E--> 89 aggattttgg aactgcagag gcttcagggt cttgggaagc ggaggcagmn aaagattgga 600
E--> 90 gtgcactgtc cttttgcaat atgggggttg cctgcctgct ggctcntctc ctgctntntc 660
E--> 91 agatggtgac tgaggctact tcngcaggac tnggaataat catgtccagg tggctgccct 720
E--> 92 tccgagcaga aagggacaga cgtggggcga tgaagttgct atcgtttntt tttttttctg 780
93 cacagactgc aaagtgtgca gagggaggga ggctgtgcaa aaaaaaaaaa aaaaaaaaaa 840
94 aaaaaaaaaa ccgaggacgc agaagttaga ctgctgaccc atttggtgca tgtgtgcccc 900
E--> 95 tggagggagg ggacctntt taaagggttc acgcggcacg cantgggnaa nngnncctnt 960
E--> 96 acgnnntccc caga 974
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 850

```

RAW SEQUENCE LISTING

DATE: 07/23/2001

PATENT APPLICATION: US/09/509,712

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

99 <212> TYPE: DNA

100 <213> ORGANISM: Rattus norvegicus

W--> 101 <400> SEQUENCE: 5

E--> 102	anttttccct	caagnaaant	ntggtttggg	caacttgaag	acgcttnnac	cnaaaaccct	60
E--> 103	tgnggagntt	ggngaccttn	ttaccgnaan	gagtgggaaa	cgttttcctc	cgggttnang	120
E--> 104	gttaggggga	cccgnnggaa	aattttaaaa	ccnngngggc	tttttcgaat	taaggggaaa	180
E--> 105	ngcggtttng	gtnnntgaag	ggcgggnggt	tggagtcnna	gtccagagtt	gatttccacc	240
E--> 106	cacaaatntg	ggaggtgncg	gggaatgntg	ncnttttctt	gngatgaggg	ntgccgtnc	300
E--> 107	ggantaacag	ngnttgcntt	gtntngcnaa	acgaagagtn	tcctgnttgg	aataggngtt	360
E--> 108	cngttcgang	ganccagatt	tangngntgg	agnaaggatt	nggcagataa	angcntgaga	420
E--> 109	natgnancnt	ggancaggtc	nggncnnagn	ntacagatga	tgnncccana	canganataa	480
E--> 110	ntncagatca	cagtcgtacc	cgnggctggg	ccatgaanag	ggcatcccca	gacnnacaca	540
E--> 111	ngccttnana	antgntcaga	gaaccancag	tggntanggg	ntgccnnnnn	naccagggaa	600
E--> 112	gacccggggc	gtgncggata	ttgacacanc	agatnncatt	tggggncggg	tcgaggggtt	660
E--> 113	atgntcnccg	agtacnagan	angatcntcc	aaccgggaat	ncggtgctcc	ngtcgtccga	720
E--> 114	tgnaatgagt	cgncgggnaa	cctcatatcc	aagaaacnat	acagcagtgg	nntccgagtc	780
E--> 115	tcgtatantc	nttgcgggng	gaggctatnt	tcagaggmca	agattaccgt	tagcgggana	840
E--> 116	aagtngaana						850

117 <210> SEQ ID NO: 6

118 <211> LENGTH: 531

119 <212> TYPE: DNA

120 <213> ORGANISM: Rattus norvegicus

W--> 121 <400> SEQUENCE: 6

E--> 122	ttgnggcngg	gtctcctctg	ngtgngngtn	tccccnanag	gggggggtctc	acagtgttng	60
E--> 123	ngtctnntgt	ctgtgtngtg	cccctgtccn	catctctcac	nccagggaga	gagatgtgag	120
E--> 124	ananacatca	gagatctctn	gnacagtgtt	tcacaagagt	ctatcnana	gagcacatct	180
E--> 125	gccccgggng	anacacaact	ctaaatgtgt	ctcanntgat	ctctctnttg	tgtctctnac	240
E--> 126	atatngggac	atgctctcag	agtatnggnt	ctcttgngcn	cttntgcaca	cacacacaca	300
E--> 127	cacacacaca	cacacacaca	cacncttctc	tctggcacag	ggntatggca	nagcacatnt	360
E--> 128	tnngagntca	nagctntata	tgagtgtgtg	gcgaaaggng	tnatnanann	gacnncccca	420
E--> 129	gcnnatatag	gggggngnnc	tctngggctc	tcttnggnaa	tntgngggng	agtctgcnc	480
E--> 130	cacaggcgct	cnnaccanc	nnnttggggc	ccccaggng	tttttcnccc	c	531

131 <210> SEQ ID NO: 7

132 <211> LENGTH: 572

133 <212> TYPE: DNA

134 <213> ORGANISM: Rattus norvegicus

W--> 135 <400> SEQUENCE: 7

E--> 136	ttttntgtg	gccctttaaa	ctctgngtgn	ccgtntnccc	nagagggggg	gtctcacaag	60
E--> 137	gagacancgg	nnacacagag	gttttgngnn	tattgngagt	ctctgcgcac	nccananttt	120
E--> 138	aaccncgggg	nctcntgttt	tattttaaaa	aaaaagagtc	ncatgtntat	ttctctnatg	180
E--> 139	tgaaaatcnc	attcanagtt	ntggggtttc	ccntgaggag	anatagagtt	tcacactctt	240
E--> 140	ctctccgagc	ggtcntenca	tgtntctccc	caatgtgngn	ggnacacaca	tngggcccn	300
E--> 141	agggggtgng	ctctctctgc	ncagggcnc	ccccaanang	tagaganaca	ntgtggtgtt	360
E--> 142	tcacaacaca	attcncgaga	nattntgttc	cncantggnn	gtctnagntc	ncatgttgtg	420
E--> 143	gngacangtt	agnncncccc	atnttncccc	ccctttcaca	ctgccccnag	agagagaaan	480
E--> 144	tctnggcccc	ctctanannt	ntttttaaat	cncnccnnac	cacaggtntt	cccagggtat	540
E--> 145	gngacntcnc	cnnccccncn	aaagatntgc	nc			572

146 <210> SEQ ID NO: 8

147 <211> LENGTH: 906

RAW SEQUENCE LISTING

DATE: 07/23/2001

PATENT APPLICATION: US/09/509,712

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

148 <212> TYPE: DNA

149 <213> ORGANISM: Rattus norvegicus

W--> 150 <400> SEQUENCE: 8

E--> 151	tgaggagtctc	tctcatatgg	cgcnttcncc	aaaggggngt	ctctntccng	agncgcanac	60
E--> 152	gcgagaanac	tctgttnant	ngtctcccc	cncnccnaca	gngtganant	caaaacctct	120
E--> 153	agagccccc	agaaancccc	tntctcaaan	aaagagaaag	agaagancga	gnagnagaga	180
E--> 154	gananagaga	gagagagtgt	gganctntnt	cctcngancc	ccannnnanan	ngtgnggcnc	240
E--> 155	actcncnngt	gnngngnacc	ccnggggatt	tnccgctgtc	cccttgngct	ctgtntanga	300
E--> 156	gananatatg	tntagtctct	ctntcgcccc	ctccgntgtc	acgtgtgcgg	ggcccnngag	360
E--> 157	acacagacac	ntctctcang	gggaacacat	anngactcnc	acntgtgttt	atattcnccc	420
E--> 158	ctcccnctca	cacanacaca	cacacagnag	atattnngct	actctctctc	tgtcacaggg	480
E--> 159	gtacanattt	antctnggcc	anacccctct	cngaagngng	ggcanngtaa	accccgcccc	540
E--> 160	ctctcngaga	angngagggc	gntttacntt	ccngtgggcg	tgtnccngcc	cccagactc	600
E--> 161	cccttgnnac	ccccctntna	accctctntt	tgaacncaac	ncacntccc	cntttctctg	660
E--> 162	gggnngncc	ngcncnct	ctcncaaaaa	aaatttnaan	ttngtcccct	nccccntnt	720
E--> 163	ttcnggnana	aaccgtgtcc	ggggggggan	nactcttttt	tgnccttaaa	atcaantttt	780
E--> 164	ttcccccttt	ccnggggacc	cccgnnttcc	tttttaaaaa	aaaanaaccc	tttctccctt	840
E--> 165	ttaaaagnac	ccnttttttc	naaaaccgtt	ccgnatttaa	ttcctaaatt	cccttcccn	900
E--> 166	ncccg						906

167 <210> SEQ ID NO: 9

168 <211> LENGTH: 914

169 <212> TYPE: DNA

170 <213> ORGANISM: Rattus norvegicus

W--> 171 <400> SEQUENCE: 9

E--> 172	gggatgngcc	ctcagatcaa	tacaccctc	ngggggngtc	tctctctatc	tccncagna	60
E--> 173	gactcccatc	tctntntntn	ccccaganc	tgngaaacgg	ngtgtggnga	ncntntctg	120
E--> 174	ttctcnantc	tctaaaagng	cnaaaagcgc	ananacacgn	gcctctctat	anatctcacg	180
E--> 175	tgccccnngn	ncctctngac	ccctntctg	tntgagagac	accctntctc	aaaatatagt	240
E--> 176	gtacacngnc	tttgnggctc	tccccctttc	tctccactnt	tgagngngaa	acgcggngtt	300
E--> 177	ntctctgaga	tgtaganagn	gtccctnct	cnatatatgt	gttncccaet	ccnnaggng	360
E--> 178	tctcataaaa	atcncntntc	tcaacaccac	cncctnacc	ccccncacga	gaacacntcn	420
E--> 179	ccaccncnan	gacacaaana	naaggngtnn	anaacccan	aaaaactnng	ntntcngntt	480
E--> 180	tacacacaca	cacacncacn	ctcncncaca	ccccacnna	aatgggagaa	aaaacagaga	540
E--> 181	ggngtggtg	ttngnntcaa	cacctnttta	cctctctgnt	gnnanttgag	aaaatatttc	600
E--> 182	tnntcttacc	cctctccctt	ctctgtgtgt	ngannatctc	ngntctagat	gtcctnacct	660
E--> 183	tccccaaacc	tttctcnggn	agagacntct	ctntnttttt	ccccncttc	catttgaaan	720
E--> 184	anangagaag	gnccaaaaag	gngggngtct	tctcggaat	ncnccctttt	ggccccccaa	780
E--> 185	cctgggtttt	tttccccctt	ccttttaatn	antttttcna	nacaaanctt	tnngngtttn	840
E--> 186	ggaaaangcc	tttnnctggn	nnntttttcc	cttccccctt	tnnangggnt	tcccccccc	900
E--> 187	ccngaatttt	tttt					914

200 <210> SEQ ID NO: 11

201 <211> LENGTH: 880

202 <212> TYPE: DNA

203 <213> ORGANISM: Rattus norvegicus

W--> 204 <400> SEQUENCE: 11

E--> 205	acccaatctt	nanngtgcca	gtgnggngga	tcttaacggt	tttttagaaa	aaaaantnct	60
E--> 206	tcgctcncac	ccccaaagct	ccntttctta	ncagcttttt	tatangaaaa	aagatgataa	120
E--> 207	cgaaatttta	aaaaccgtcg	ttagaggaaa	tgaaggttca	gccgaccatt	acctganagt	180
E--> 208	aatgaaggtn	ttccggaggg	ttgccttcca	atcccagatg	gatttgagtt	tcaggatcaa	240

RAW SEQUENCE LISTING

DATE: 07/23/2001

PATENT APPLICATION: US/09/509,712

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

```

E--> 209  ttcagttacc gntgaccatc caccnnctc cngtataatc attngatgag gatgaatggt 300
E--> 210  gagtgagtga tgatgatgat gatgatgatg aagggatgag aagnacacta tgataacaag 360
E--> 211  tgtctcagtc cacattaagg tttgcctgna aattagtgca taagccatgg gagacaaatt 420
E--> 212  cttttcnac  acaattaata gtncttant  ccttccatc  ttctctgccc cattctgttt 480
      213  tccaccacag gtctgcagcg ggtctacagt tccagtctcc aagcaaatac cagaactgga 540
      214  ggagaaaatt ccagtcagtg gagtcatggg cagggggagg ggtggggtaa gggcagtggc 600
E--> 215  gctcattcct nacatgggtg cttctcttgc ctagcctggg atctgagggc aagagaacct 660
      216  gtaagcttga tttgatttcc actgctgact ggagtcactg ccaagggatt tgggacttct 720
      217  ccatctctct ctctaacctg aaatccttag gattctatta tttcaccgga ccagagctgt 780
E--> 218  agcagagatg agctccaagt ttgaaatgag aaaggggaaa ttgagagcta tgagctaggn 840
E--> 219  gcgaaagncc ccacaaagnn tttggcaagt agaaaagncg 880
      220 <210> SEQ ID NO: 12
      221 <211> LENGTH: 909
      222 <212> TYPE: DNA
      223 <213> ORGANISM: Rattus norvegicus
W--> 224 <400> SEQUENCE: 12
E--> 225  cgngagnngg cagggannna ggngggagcn ngagaggaga aggagaaggn nnggnaggng 60
E--> 226  nngngagnaa cgggcgggan cnnnngacga gagaanggnn aggggancca agngcggngg 120
E--> 227  nagacggtgc nnggggggga ggggcaggag nggnagagag gcangagnng agnggggaca 180
E--> 228  agcnaaaanc gaggaggnan gangngangg nngngngnc gaaggcgcn aagnnggtcg 240
E--> 229  gngagcggna gnggnnaaac tggggaacga gacagacggc ccnncggng gcangnggga 300
E--> 230  gagnnncgcc agngagagna gncagnanca gancanggga ggggggggan ncacnggcgg 360
E--> 231  gaggngcgan gacggnnngn annggnnaga ggcannnnc gccnanagn ngagngagg 420
E--> 232  cangagtgn cngngagnag acaggccgc gcncggggg cagacnnng ncaccaccga 480
E--> 233  ggggtggngg ggcncggaga naagaccaga ggnnngagg cganggcnn ngtnngccc 540
E--> 234  ggccnccna aaaaaanncc gaaaaaaaan aaggggcgcn gcngggcngg ggaggagcgc 600
E--> 235  ntnncttang tngantgacg gaggcngna atngggcgn gccanncnag ggcgnagagg 660
E--> 236  cccaagngcg gnagngnaa gnanagancc ngnggtngg gagnganagn gcnnngnncc 720
E--> 237  naccnccngn gttganggcn cccacgncgg ngcaggccgn nnaaagnag tcccnaaaa 780
E--> 238  nntcngggtg tnacancgnc ccgggngcgc cgengngtcc cgncacacng gannncggag 840
E--> 239  anngcctnnt ntctncacan ggngccanac nngntgtat gcaaaagggg cgnacttcna 900
E--> 240  gaaaaagnc 909
      241 <210> SEQ ID NO: 13
      242 <211> LENGTH: 927
      243 <212> TYPE: DNA
      244 <213> ORGANISM: Rattus norvegicus
W--> 245 <400> SEQUENCE: 13
E--> 246  cctttattcg gaggcaggga nnncttgctc gggaangtta aacgtttttt aaaagggggg 60
E--> 247  nccnnggggg ggggnttnt ccagggaant aaaanggtgn gttggggggg aaaaatttat 120
E--> 248  tttnaaaaag ggcgncnat ataaangacn ttcggggggg tttgaanagg gccggaancn 180
E--> 249  tcgacgggtt tccggngggg ganaaggana aggnnacgca cgggatttct tnccttttt 240
E--> 250  tngcaaattg cngcaggana ccaccgggtg gggnggtttt gttttccgtn aagaaagcgg 300
E--> 251  gngtgaaaaa acanggataa acgggaagan ggggttattt nggttagnaa ttgnttcag 360
E--> 252  ngnggccagg aaattggcct gtccaaaatt cttttccng cttttaagac aggcaggtat 420
E--> 253  tatttggcag caggttatta cnataggnaa gtaataaca atgggtaagt gcctggcaca 480
E--> 254  ggccagggta agtagggcat gtatggaatg ttaaacatta cccttcaccc tgagaaanaa 540
E--> 255  aanacaagna anaaaggctg gtctcacata tcccaaaget ttatcttct aggtgcccc 600
E--> 256  tgggtgaacg taagccaagc ntatgantca caagggacga catgggcagg ntaggttaca 660
E--> 257  gaatcagtn tcagagactc caggggcacc cctgattccc tttgctgtca cacagacact 720

```

FYI →

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.